

Ministry-funded Y0-Y8 Maths Resource Curriculum Alignment Guide



The purpose of this guide is to enable schools to use existing Ministry-funded Maths resources with the updated Mathematics and Statistics learning area (October 2025). The guide identifies the Strands, Elements and Practices in the updated Maths and Statistics learning area and shows the location of this learning in existing print and digital resources.

Learning Level	Phase 1 - Years 0-3
Supplier	Numicon

First 6 months

Strand and Element	Practices The skills, strategies, and applications to teach	Resource Title	Resource Type	Teacher/Student	Page/Section Reference	Notes (Printable packs are downloaded from Numicon online)
Number: number structures	Subitising (recognising without counting) the number of objects in a small collection (3–5 objects)	Firm Foundations (FF) Everyday Counting with Numicon Cards 1, 2, 3	Digital	Teacher	Cards 1, 2, 3 Numicon at the Seaside Teacher Guide	
				Student (Print download)	Counting and Ideas Number Book Numicon at the Seaside Home Learning	
	Counting collections of up to 10 objects using one-to-one correspondence	Firm Foundations (FF) Everyday Counting with Numicon Card 4	Digital	Teacher	Card 4 Numicon at the Seaside Teacher Guide	
				Student (Print download)	Counting and Ideas Number Book Numicon at the Seaside Home Learning	
	Counting forwards or backwards from any whole number between 1 and 10, and then between 1 and 20	Firm Foundations (FF) Everyday Counting with Numicon Cards 4 and 5 Additional resource download Cards 6-15, 17,18	Digital	Teacher	Card 5 Numicon at the Seaside Teacher Guide	To 10
				Student (Print download)	Counting and Ideas Number Book Numicon at the Seaside Home Learning	To 20
	Reading and writing whole numbers up to 20	Firm Foundations (FF) Everyday Counting with Numicon Cards 2 - 11	Digital	Teacher	Card 2 - 11 Numicon at the Seaside Teacher Guide	Reading and writing to 10
				Student (Print download)	Counting and Ideas Number Book Numicon at the Seaside Home Learning	Reading to 20

	Locating whole numbers on a fully labelled number line	Firm Foundations (FF) Everyday Counting with Numicon Cards 1-19	Digital	Teacher	Everyday Counting with Numicon Firm Foundations (FF) Cards 1 - 19	
				Student (Print download)	Counting and Ideas Number Book Numicon at the Seaside Home Learning	
	Comparing and ordering whole numbers up to 20 and ordinal numbers up to 5 th , using words	Firm Foundations (FF) Everyday Counting with Numicon Cards 1-8, 12, 14-19	Digital	Teacher	Cards 1-8, 12, 14-19	
				Student (Print download)	Counting and Ideas Number Book Numicon at the Seaside Home Learning	
	Recognising when a quantity is greater than, less than, or the same as another quantity	Firm Foundations (FF) Cards 1-9,12, 14, 16 - 19	Digital	Teacher	Cards 1-9,12, 14, 16 - 19	
				Student (Print download)	Counting and Ideas Number Book Numicon at the Seaside Home Learning	
Number: operations	Memorising addition and subtraction facts up to 5 (e.g. $2 + 3 = 5$)	Firm Foundations (FF) Cards 14, 15, 17, 18	Digital	Teacher	Cards 14, 15, 17, 18	
				Student (Print download)	Counting and Ideas Number Book Numicon at the Seaside Home Learning	
	Naming the number before or after a given number in the counting sequence up to 10	Firm Foundations (FF) Everyday Counting with Numicon Cards 2 – 5	Digital	Teacher	Cards 2 - 5	
				Student (Print download)	Counting and Ideas Number Book Numicon at the Seaside Home Learning	
Algebra: equations and relationships	Copying, continuing, creating, and describing a repeating pattern with two elements (e.g. cat, dog, ____, ____)	Firm Foundations (FF) Cards 2, 3, 6, 8	Digital	Teacher	Cards 2, 3, 6, 8	
				Student (Print download)	Counting and Ideas Number Book Numicon at the Seaside Home Learning	
	Using ordinal numbers up to 5 th place to describe position in a sequence	Firm Foundations (FF) Cards 1-5 Numicon 1 (NPC) Numbers and the Number System1 Activity 4	Digital	Teacher	Cards 1 - 5 Numicon 1 Pages 137-142, 153-159,	
				Student (Print download)	Counting and Ideas Number Book Numicon at the Seaside Home Learning	
Measurement: measuring	Directly comparing two objects by an attribute (e.g. length, mass (weight), capacity)	Firm Foundations (FF) Cards 1, 2, 4, 5, 6, 7, 9, 13, 14, 15, 17	Digital	Teacher	Cards 1, 2, 4, 5, 6, 7, 9, 13, 14, 15, 17	
				Student (Print download)	Counting and Ideas Number Book Numicon at the Seaside Home Learning	
	Connecting days of the week to familiar events and daily routines (e.g. via the class timetable)	Firm Foundations (FF) Cards 8, 9, 15	Digital	Teacher	Cards 8, 9, 15	
				Student (Print download)	Counting and Ideas Number Book Numicon at the Seaside Home Learning	
	Naming and ordering the days of the week, including naming the day before and the day after	Firm Foundations (FF) Card 8	Digital	Teacher	Card 8	
				Student (Print download)	Counting and Ideas Number Book Numicon at the Seaside Home Learning	

Geometry: shapes	Identifying, sorting by one attribute, and describing familiar 2D shapes, including triangles, circles, and rectangles (including squares)	Firm Foundations (FF) Cards 3, 5 - Triangles circles, rectangles Card 10 - Cuboids, cylinders Sorting, describing	Digital	Teacher	Cards 3, 5, 10	Triangles circles, rectangles
				Student (Print download)	Counting and Ideas Number Book Numicon at the Seaside Home Learning	Cuboids, cylinders Sorting, describing
Geometry: pathways	Following instructions to move to a familiar location or locate an object	Firm Foundations (FF) Cards 16, 17	Digital	Teacher	Cards 16, 17	
				Student (Print download)	Counting and Ideas Number Book Numicon at the Seaside Home Learning	

Year 1

Strand and Element	Practices The skills, strategies, and applications to teach	Resource Title (NPC: Number, Pattern and Calculating Teaching Handbook; GMS: Geometry, Measurement and Statistics Teaching Handbook)	Resource Type	Teacher/Student	Page/Section Reference	Notes (Printable packs are downloaded from Numicon online)
Number: number structures	Subitising (recognising without counting) smaller groups of objects within a larger collection (e.g. 3 and 5 in a group of 8 objects)	NUMICON 1 (NPC) Securing Foundations 4 Comparing and ordering, more patterns, beginning calculating	Digital	Teacher	62-68	
		NUMICON 1 (NPC) Securing Foundations 5 Describing relationships, more adding and patterns in movement	Digital	Teacher	69-73	
	Reading and writing whole numbers up to 100, and representing them using base 10 structure	NUMICON 1 (NPC) Securing Foundations 6 Naming number rods, investigating teen numbers and finding totals	Digital	Teacher	74-80	
		NUMICON 1 (NPC) Securing Foundations 7 More about teen numbers, number patterns, adding NNS Activities 1-3	Digital	Teacher	83	
		NUMICON 1 (NPC) Securing Foundations 8 Beginning subtracting, sorting, more number patterns	Digital	Teacher	90	
	Counting forwards or backwards from any whole number between 1 and 20, and then between 1 and 100	NUMICON 1 (NPC) Securing Foundations 1 Learning about Numicon Shapes, number rods, pattern and counting	Digital	Teacher	42-48	
		NUMICON 1 (NPC) Securing Foundations 2 Naming Numicon Shapes, building patterns and counting objects	Digital	Teacher	49-55	
		NUMICON 1 (NPC) Securing Foundations 3 Building Numicon Shape patterns, more repeating patterns and number lines	Digital	Teacher	56-61	

Number: number structures		NUMICON 1 (NPC) Securing Foundations 4 Comparing and ordering, more patterns, beginning calculating	Digital	Teacher	62-68	
		NUMICON 1 (NPC) Numbers and the Number System 3 Exploring number lines and counting in steps	Digital	Teacher	147-152	
	Counting forwards and backwards in 2s and 10s from any whole number between 0 and 100	NUMICON 1 (NPC) Numbers and the Number System 3 Exploring number lines and counting in steps	Digital	Teacher	147-152	
	Comparing and ordering whole numbers and ordinal numbers using representations, words, or numerals, and suffixes to 100	NUMICON 1 (NPC) Numbers and the Number System 4 Structure of 2-digit numbers and more ordering	Digital	Teacher	153-159	
	Counting collections of objects using one-to-one correspondence, and then by pairs, for up to 20 objects	NUMICON 1 (NPC) Numbers and the Number System 2 Finding how many by grouping Activity 2	Digital	Teacher	145-146	
		NUMICON 1 (NPC) Numbers and the Number System 3 Exploring number lines and counting in steps Activity 1	Digital	Teacher	148, 152	
	Finding the total number of objects up to 20 by grouping (using pairs, 5s, or 10s)	NUMICON 1 (NPC) Securing Foundations 1 Learning about Numicon Shapes, number rods, pattern and counting	Digital	Teacher	42-48	
		NUMICON 1 (NPC) Securing Foundations 4 Comparing and ordering, more patterns, beginning calculating	Digital	Teacher	62-68	
		NUMICON 1 (NPC) Securing Foundations 7 More about teen numbers, number patterns, adding	Digital	Teacher	81-86	
		NUMICON 1 (NPC) Numbers and the Number System 2 Finding how many by grouping	Digital	Teacher	143-146	

Number: number structures		NUMICON 1 (NPC) Numbers and the Number System 3 Exploring number lines and counting in steps Activity 1	Digital	Teacher	148, 152	
	Using te reo Māori for numbers up to 30		Digital		Download from Numicon online	
	Locating numbers on a partially labelled number line (e.g. 17 on a number line labelled in 5s)	NUMICON 1 (NPC) Numbers and the Number System 3 Exploring number lines and counting in steps Activity 2	Digital	Teacher	148	
		NUMICON 1 (NPC) Numbers and the Number System 4 Structure of 2-digit numbers and more ordering Activity 6	Digital	Teacher	156	
Number: operations	Memorising addition and subtraction facts up to 10, including $10 + 0 = 10$ (e.g. $7 + 3 = 10$)	NUMICON 1 (NPC) Calculating 4 Exploring adding and subtracting facts to 10	Digital	Teacher	179-190	
		NUMICON 1 (NPC) Calculating 7 Developing recall of adding and subtracting facts within 10	Digital	Teacher	204-210	
	Memorising doubles and halves to 10	FIRM FOUNDATIONS Firm Foundations Card 13	Digital	Teacher	Card 13	
		NUMICON 1 (NPC) Calculating 4 Exploring adding and subtracting facts to 10 Activity 21	Digital	Teacher	187-189	
	Adding ten to a one-digit number	NUMICON 1 (NPC) Calculating 9 Partitioning into tens and ones	Digital	Teacher	219-225	
	Adding and subtracting one- and two-digit numbers up to 20, including 0	NUMICON 1 (NPC) Calculating 8 Adding more than two numbers	Digital	Teacher	211-218	
NUMICON 1 (NPC) Calculating 9 Partitioning into tens and ones		Digital	Teacher	219-225		

Number: operations	Joining and separating groups of up to 20 objects (e.g. $9 + 6, 7 + _ = 11$).	NUMICON 1 (NPC) Securing Foundations 7 More about teen numbers, number patterns, adding Activity NNS2	Digital	Teacher	83	
		NUMICON 1 (NPC) Numbers and the Number System 2 Finding how many by grouping	Digital	Teacher	143-146	
		NUMICON 1 (NPC) Calculating 9 Partitioning into tens and ones	Digital	Teacher	218-223	
	Multiplying and dividing using equal grouping or counting for products and dividends within 20	NUMICON 1 (NPC) Numbers and the Number System 3 Exploring number lines and counting in steps	Digital	Teacher	147-152	
	Naming the number before or after a given number in the counting sequence up to 20	NUMICON 1 (NPC) Securing Foundations 3 Building Numicon Shape patterns, more repeating patterns and number lines NNS Practice & Discussion	Digital	Teacher	59	
		NUMICON 1 (NPC) Securing Foundations 6 Naming number rods, investigating teen numbers and finding totals Activity NNS 1	Digital	Teacher	76	
		NUMICON 1 (NPC) Securing Foundations 7 More about teen numbers, number patterns, adding Activities NNS 1-3	Digital	Teacher	83, 85	
		NUMICON 1 (NPC) Securing Foundations 8 Beginning subtracting, sorting, more number patterns NNS Practice & Discussion	Digital	Teacher	90	
		NUMICON 1 (NPC) Numbers and the Number System 1 Ordering numbers to 20	Digital	Teacher	137-142	
		NUMICON 1 (NPC) Calculating 2 Adding and subtracting 1 and 2	Digital	Teacher	167-172	

Number: operations	Solving one-step problems involving addition and subtraction using objects and pictorial representations	NUMICON 1 (NPC) Securing Foundations 8 Beginning subtracting, sorting, more number patterns	Digital	Teacher	87-91	
		NUMICON 1 (NPC) Securing Foundations 9 Sorting, more practical subtracting	Digital	Teacher	92-95	
		NUMICON 1 (NPC) Securing Foundations 11 Counting and adding	Digital	Teacher	101-106	
Number: rational numbers	Recognising and representing halves and quarters as fractions of sets, quantities, and regions, using equal parts of the whole	NUMICON 1 (NPC) Calculating 5 Halves and quarters of wholes	Digital	Teacher	191-196	
	Finding a half or quarter of a set using equal sharing and grouping	NUMICON 1 (NPC) Calculating 5 Halves and quarters of wholes	Digital	Teacher	191-196	Activity in eBook and printable pack
	Using te reo Māori naming of halves (haurua) and quarters (hauwhā)		Digital		Download from Numicon online	
	Connecting $\frac{1}{2}$ and $\frac{1}{4}$ through halving	NUMICON 1 (NPC) Calculating 5 Halves and quarters of wholes	Digital	Teacher	191-196	Activity in eBook and printable pack
Number: financial maths	Recognising and knowing the value of New Zealand denominations of currency (i.e., our coins and notes)	NUMICON 1 (NPC) Securing Foundations 8 Beginning subtracting, sorting, more number patterns Activity Pattern & Algebra 3	Digital	Teacher	88-89	
		NUMICON 1 (NPC) Calculating 3 Money	Digital	Teacher	173-178	
		NUMICON 1 (GMS) Measurement 2 Introducing the \$1 and \$2 coins and \$5 and \$10 notes	Digital	Teacher	65-71	
Algebra: equations and relationships	Completing open number sentences involving addition and subtraction of one-digit numbers (e.g. $2 + 5 = 3 + \underline{\quad}$)	NUMICON 1 (NPC) Calculating 7 Developing recall of adding and subtracting facts within 10 Activity 5	Digital	Teacher	206	

Algebra: equations and relationships	Checking the truth of number sentences involving addition and subtraction of one-digit numbers (e.g. $7 - 5 = 6 - 4$, true or false?)	NUMICON 1 (NPC) Calculating 8 Adding more than two numbers Activity 14	Digital	Teacher	217	Activity in eBook and printable pack
	Copying, continuing, creating, and describing a repeating pattern with three elements	NUMICON 1 (NPC) Securing Foundations 3 Building Numicon Shape patterns, more repeating patterns and number lines Activity Pattern & Algebra 3	Digital	Teacher	57	
		NUMICON 1 (NPC) Securing Foundations 4 Comparing and ordering, more patterns, beginning calculating Activity Pattern & Algebra 1 and 2	Digital	Teacher	63	
		NUMICON 1 (NPC) Securing Foundations 5 Describing relationships, more adding and patterns in movement Activity Pattern & Algebra 1	Digital	Teacher	70	
		NUMICON 1 (GMS) Geometry 2 Making pictures, shapes and patterns	Digital	Teacher	34-40	
	Identifying missing elements in a pattern (e.g. red, green, blue, red, _____, blue)	NUMICON 1 (GMS) Geometry 2 Making pictures, shapes and patterns	Digital	Teacher	34-40	
Measurement: measuring	Comparing the length, mass (weight), or capacity of objects directly or indirectly (e.g. by comparing each of them with another reference object, used repeatedly)	NUMICON 1 (NPC) Securing Foundations 10 Comparing lengths and weights, more subtracting Activity Pattern & Algebra 1-3	Digital	Teacher	97-98	
		NUMICON 1 (GMS) Measurement 1 Comparing, ordering and measuring lengths and area	Digital	Teacher	59-64	
		NUMICON 1 (GMS) Measurement 4 Comparing, ordering and measuring heaviness	Digital	Teacher	77-82	

Measurement: measuring	Using comparative language for lengths and heights (longer, shorter, taller) and mass (heavier, lighter)	NUMICON 1 (GMS) Measurement 1 Comparing, ordering and measuring lengths and area	Digital	Teacher	59-64	
		NUMICON 1 (GMS) Measurement 4 Comparing, ordering and measuring heaviness	Digital	Teacher	77-82	
	Selecting appropriate units of time to communicate approximate durations in years, months, weeks, days, hours, minutes, or seconds	NUMICON 1 (GMS) Measurement 3 Units of time	Digital	Teacher	72-76	
	Sequencing events in a day using everyday language of time (e.g. after, before, earlier, later, tomorrow, yesterday, the day after, next)	NUMICON 1 (GMS) Measurement 3 Units of time	Digital	Teacher	72-76	
	Telling the time on analogue and digital clocks to the hour, using the language of 'o'clock'	NUMICON 1 (GMS) Measurement 6 Telling the time	Digital	Teacher	89-94	
Geometry: shapes	Identifying, describing, and sorting by one attribute familiar 2D and 3D shapes presented in different orientations, including cubes, cylinders, and spheres	NUMICON 1 (GMS) Geometry 1 Recognizing and naming 2D shapes	Digital	Teacher	28-33	
		NUMICON 1 (GMS) Geometry 3 Recognizing and imagining common 3D shapes	Digital	Teacher	41-45	
		NUMICON 1 (GMS) Geometry 4 Comparing and naming common solid 3D shapes	Digital	Teacher	46-50	
Geometry: spatial reasoning	Composing a compound shape using smaller shapes by trial and error, and decomposing a shape into smaller shapes	NUMICON 1 (GMS) Geometry 2 Making pictures, shapes and patterns	Digital	Teacher	34-40	
Geometry: pathways	Following instructions to move to a familiar location or locate an object	NUMICON 1 (GMS) Geometry 5 Position, direction and movement	Digital	Teacher	51-57	
	Using pictures, diagrams, or stories to describe the positions of objects and places.	NUMICON 1 (GMS) Geometry 5 Position, direction and movement	Digital	Teacher	51-57	

Geometry: pathways	Using positional language to describe the position and movement of objects (e.g. above, below, left, right, in-front, behind, top, bottom, inside, outside, on, under, next to)	NUMICON 1 (GMS) Geometry 5 Position, direction and movement	Digital	Teacher	51-57	
Statistics: Developing knowledge from data	Collecting categorical data for an investigative question with limited categories (e.g. Do students in our class have one foot longer than the other?)	NUMICON 1 (NPC) Pattern & Algebra 3 Odd and even	Digital	Teacher	124-127	S&P1 is eBook plus printable pack
		NUMICON 1 (NPC) Pattern & Algebra 4 Logic	Digital	Teacher	128-131	
		NUMICON 1 (GMS) Statistics and Probability 1 Understanding pictograms, data and chance	Digital	Teacher	96-100	S&P1 is eBook plus printable pack
	Recording data using tally charts	NUMICON 1 (GMS) Statistics and Probability 1 Understanding pictograms, data and chance	Digital	Teacher	96-100	S&P1 is eBook plus printable pack
Statistics: Visualisation of data	Creating picture graphs for categorical data	NUMICON 1 (GMS) Statistics and Probability 1 Understanding pictograms, data and chance	Digital	Teacher	96-100	S&P1 is eBook plus printable pack
Statistics: Interpretation of data	Describing a picture graph by giving the frequency for each category	NUMICON 1 (GMS) Statistics and Probability 1 Understanding pictograms, data and chance	Digital	Teacher	96-100	S&P1 is eBook plus printable pack
	Answering questions about a picture graph, including which category has the most or least items	NUMICON 1 (GMS) Statistics and Probability 1 Understanding pictograms, data and chance	Digital	Teacher	96-100	S&P1 is eBook plus printable pack

Year 2

Strand and Element	Practices The skills, strategies, and applications to teach	Resource Title (NPC: Number, Pattern and Calculating Teaching Handbook; GMS: Geometry, Measurement and Statistics Teaching Handbook)	Resource Type	Teacher/ Student	Page/Section Reference	Notes (Printable packs are downloaded from Numicon online)
Number: number structures	Reading and writing whole numbers up to 120, and representing them using base 10 structure	NUMICON 2 (NPC) Numbers and the Number System 1 Counting to 100 and beyond	Digital	Teacher	90-94	
		NUMICON 2 (NPC) Numbers and the Number System 2 2-digit numbers	Digital	Teacher	95-100	
		NUMICON 3 (NPC) Numbers and the Number System 2 Exploring hundreds, tens and ones with base-ten apparatus	Digital	Teacher	80-83	
	Comparing and ordering whole numbers up to 120	NUMICON 2 (NPC) Numbers and the Number System 3 More 2-digit numbers	Digital	Teacher	100-106	
		NUMICON 2 (NPC) Numbers and the Number System 4 Comparing and ordering numbers to 100	Digital	Teacher	107-111	
	Counting forwards in 3s from multiples of 3s	NUMICON 2 (NPC) Pattern & Algebra 5 Patterns and sequences of 2s, 3s, 5s and 10s	Digital	Teacher	69-76	
		NUMICON 2 (NPC) Calculating 8 Introducing multiplying as repeated adding Activity 6	Digital	Teacher	170, 172	
		NUMICON 2 (NPC) Calculating 9 Learning times tables and about multiplying through arrays Activity 5	Digital	Teacher	175, 177	

Number: number structures	Counting forwards and backwards in 2s, 5s, and 10s from any whole number between 0 and 120	NUMICON 2 (NPC) Pattern & Algebra 5 Patterns and sequences of 2s, 3s, 5s and 10s	Digital	Teacher	69-76	
		NUMICON 2 (NPC) Calculating 8 Introducing multiplying as repeated adding	Digital	Teacher	167-172	
		NUMICON 2 (NPC) Calculating 9 Learning times tables and about multiplying through arrays Activity 1	Digital	Teacher	173-178	
	Finding the total number of objects up to 120 by separating them into groups (e.g. groups of ten)	NUMICON 2 (NPC) Numbers and the Number System 1 Counting to 100 and beyond	Digital	Teacher	90-94	
		NUMICON 2 (NPC) Numbers and the Number System 3 More 2-digit numbers	Digital	Teacher	100-106	
	Using te reo Māori for numbers up to 100		Digital	Teacher	Download from Numicon online	
	Identifying odd and even numbers up to 120	NUMICON 2 (NPC) Pattern & Algebra 4 Odd and even	Digital	Teacher	64-68	
	Rounding numbers up to 120 to the nearest 10	NUMICON 2 (NPC) Numbers and the Number System 5 Rounding	Digital	Teacher	112-116	
	Recognising the place value of each digit in a two-digit number, and a three-digit number up to 120	NUMICON 2 (NPC) Numbers and the Number System 2 2-digit numbers	Digital	Teacher	95-100	
NUMICON 2 (NPC) Numbers and the Number System 3 More 2-digit numbers		Digital	Teacher	100-106		
NUMICON 3 (NPC) Numbers and the Number System 2 Exploring hundreds, tens and ones with base-ten apparatus		Digital	Teacher	80-83		

Number: number structures	Approximately locating numbers up to 120 on a partially labelled number line (e.g. 61 on a number line labelled in tens)	NUMICON 2 (NPC) Numbers and the Number System 1 Activity 6	Digital	Teacher	91 93	
		NUMICON 2 (NPC) Numbers and the Number System 2 2-digit numbers	Digital	Teacher	95-100	
		NUMICON 2 (NPC) Numbers and the Number System 3 More 2-digit numbers	Digital	Teacher	100-106	
	Memorising addition and subtraction facts up to 20 (e.g. $17 + 3 = 20$)	NUMICON 2 (NPC) Calculating 14 Adding and subtracting to 20	Digital	Teacher	203-209	
	Memorising doubles and halves to 20	NUMICON 2 (NPC) Calculating 10 Mental strategies for near doubles and adding and subtracting 9	Digital	Teacher	179-184	
	Adding 100 to a one-digit number	NUMICON 3 (NPC) Numbers and the Number System 2 Exploring hundreds, tens and ones with base-ten apparatus	Digital	Teacher	80-83	
	Adding and subtracting numbers up to 100 (e.g. $32 + 20$ or $32 - 2$)	NUMICON 2 (NPC) Calculating 5 Adding and subtracting 1 and 10	Digital	Teacher	146-153	
		NUMICON 2 (NPC) Calculating 7 Adding and subtracting 1-digit numbers to and from 2-digit numbers	Digital	Teacher	160-166	
		NUMICON 2 (NPC) Calculating 11 Bridging through multiples of 10	Digital	Teacher	185-189	
		NUMICON 2 (NPC) Calculating 12 Adding three or more 1-digit numbers	Digital	Teacher	190-194	
NUMICON 2 (NPC) Calculating 13 Adding and subtracting 2-digit numbers to 100		Digital	Teacher	194-202		

Number: number structures	Adding and subtracting 3 one-digit numbers (e.g. $7 + 3 + 6$).	NUMICON 2 (NPC) Calculating 12 Adding three or more 1-digit numbers	Digital	Teacher	190-194	
	Solving one-step addition and subtraction problems involving numbers up to 100	NUMICON 2 (NPC) Pattern & Algebra 2 Exploring the inverse relationship between adding and subtracting within 10	Digital	Teacher	51-56	
		NUMICON 2 (NPC) Pattern & Algebra 3 Exploring equivalence – introducing empty box notation	Digital	Teacher	57-63	Activity in eBook and printable pack
		NUMICON 2 (NPC) Calculating 1 Adding and writing adding sentences	Digital	Teacher	122-126	
		NUMICON 2 (NPC) Calculating 2 Subtracting and writing subtraction sentences	Digital	Teacher	127-131	
	Solving multi-step addition and subtraction problems involving numbers up to 20	NUMICON 2 (NPC) Calculating 14 Adding and subtracting to 20	Digital	Teacher	203-209	
	Identifying the relationship between skip counting and multiplication facts for 2s, 5s, and 10s	NUMICON 2 (NPC) Pattern & Algebra 5 Patterns and sequences of 2s, 3s, 5s and 10s	Digital	Teacher	69-76	
		NUMICON 2 (NPC) Calculating 8 Introducing multiplying as repeated adding	Digital	Teacher	167-172	
		NUMICON 2 (NPC) Calculating 9 Learning times tables and about multiplying through arrays	Digital	Teacher	173-178	
	Memorising multiplication and corresponding division facts for 2s, 5s, and 10s	NUMICON 2 (NPC) Pattern & Algebra 5 Patterns and sequences of 2s, 3s, 5s and 10s	Digital	Teacher	69-76	
		NUMICON 2 (NPC) Calculating 9 Learning times tables and about multiplying through arrays	Digital	Teacher	173-178	

Number: number structures		NUMICON 2 (NPC) Calculating 15 Introducing dividing as 'How many ... in ...?'	Digital	Teacher	210-215	
	Multiplying and dividing with products and dividends up to 100	NUMICON 2 (NPC) Calculating 8 Introducing multiplying as repeated adding	Digital	Teacher	167-172	
		NUMICON 2 (NPC) Calculating 9 Learning times tables and about multiplying through arrays	Digital	Teacher	173-178	
		NUMICON 2 (NPC) Calculating 15 Introducing dividing as 'How many ... in ...?'	Digital	Teacher	210-215	
Number: rational numbers	Recognising, reading, writing (using symbols and words), and representing halves, thirds, and quarters ($\frac{1}{3}, \frac{1}{4}, \frac{2}{4}, \frac{1}{2}, \frac{2}{3}, \frac{3}{4}$) as fractions of sets, quantities, and regions, using equal parts of the whole	NUMICON 2 (NPC) Numbers and the Number System 6 Introducing fractions as numbers	Digital	Teacher	117-120	
		NUMICON 2 (NPC) Calculating 16 Halves, quarters and thirds of wholes	Digital	Teacher	216-221	Activity in eBook and printable pack
	Recognising the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$	NUMICON 2 (NPC) Calculating 16 Halves, quarters and thirds of wholes	Digital	Teacher	216-221	Activity in eBook and printable pack
	Directly comparing two fractions involving halves, thirds, or quarters	NUMICON 2 (NPC) Numbers and the Number System 6 Introducing fractions as numbers	Digital	Teacher	117-120	
		NUMICON 2 (NPC) Calculating 16 Halves, quarters and thirds of wholes	Digital	Teacher	216-221	Activity in eBook and printable pack
	Finding a half, quarter, or third of a set by identifying groups and patterns (rather than sharing by ones)	NUMICON 2 (NPC) Calculating 16 Halves, quarters and thirds of wholes	Digital	Teacher	216-221	Activity in eBook and printable pack
Number: rational numbers	Finding a whole when given a $\frac{1}{2}, \frac{1}{3}$, or $\frac{1}{4}$ of a length, shape, or set of objects or quantities	NUMICON 2 (NPC) Calculating 16 Halves, quarters and thirds of wholes	Digital	Teacher	216-221	Activity in eBook and printable pack

Number: financial maths	Recognising and ordering New Zealand denominations according to their value, making groups of 'like' denominations, and calculating their value	NUMICON 2 (GMS) Measurement 2 Introducing the 10c, 20c and 50c coins and revisiting the \$1 and \$2 coins	Digital	Teacher	66-71	
		NUMICON 2 (GMS) Measurement 3 Exploring the \$5, \$10 and \$20 notes	Digital	Teacher	72-76	
	Combining denominations of currency (either all notes or all coins) to make a particular value	NUMICON 2 (GMS) Measurement 2 Introducing the 10c, 20c and 50c coins and revisiting the \$1 and \$2 coins	Digital	Teacher	66-71	
		NUMICON 2 (GMS) Measurement 3 Exploring the \$5, \$10 and \$20 notes	Digital	Teacher	72-76	
Algebra: equations and relationships	Checking the truth of number sentences and completing open number sentences involving addition, subtraction, multiplication, or division using tens frames, discrete materials, or number lines (e.g. $18 + _ = 17 + 6$, $6 \div _ = 2$, $2 + 2 + 2 = 3 \times 2$, true or false?)	NUMICON 2 (NPC) Pattern & Algebra 3 Exploring equivalence – introducing empty box notation	Digital	Teacher	57-63	Activity in eBook and printable pack
		NUMICON 2 (NPC) Calculating 1 Adding and writing adding sentences	Digital	Teacher	122-126	
		NUMICON 2 (NPC) Calculating 4 Adding and subtracting whole tens Focus activities 8 and 13	Digital	Teacher	141, 144-145	
		NUMICON 2 (NPC) Calculating 5 Adding and subtracting 1 and 10 Activity 9	Digital	Teacher	150-151	
		NUMICON 2 (NPC) Calculating 14 Adding and subtracting to 20 Focus activities 4 and 8	Digital	Teacher	205-207, 209	
		NUMICON 2 (NPC) Calculating 15 Introducing dividing as 'How many ... in ... ?' Focus activities 2 and 5	Digital	Teacher	210, 213	

Algebra: equations and relationships	Checking the truth of number sentences involving direct comparisons of whole numbers up to 120 (e.g. $16 > 60$, true or false?)	NUMICON 2 (NPC) Numbers and the Number System 4 Comparing and ordering numbers to 100	Digital	Teacher	107-111	
	Recognising and describing the unit of repeat in a repeating pattern, and using the unit of repeat and ordinal position in a repeating pattern to predict further elements (e.g. ACDC in the pattern ACDCACDCACDC)	NUMICON 2 (NPC) Pattern & Algebra 1 Exploring different patterns	Digital	Teacher	46-50	
Measurement: measuring	Estimating and using an informal unit repeatedly to measure the length, mass (weight), or capacity of an object	NUMICON 2 (GMS) Measurement 1 Introducing centimetres	Digital	Teacher	59-65	
		NUMICON 2 (GMS) Measurement 4 Introducing metres	Digital	Teacher	77-82	
		NUMICON 2 (GMS) Measurement 5 Introducing kilograms and grams	Digital	Teacher	83-88	
		NUMICON 2 (GMS) Measurement 6 Introducing litres and millilitres, and units of temperature	Digital	Teacher	89-94	
	Estimating and measuring length (cm), mass (g), and capacity (ml), using tools with labelled markings and whole-number metric units	NUMICON 2 (GMS) Measurement 1 Introducing centimetres	Digital	Teacher	59-65	
		NUMICON 2 (GMS) Measurement 4 Introducing metres	Digital	Teacher	77-82	
		NUMICON 2 (GMS) Measurement 5 Introducing kilograms and grams	Digital	Teacher	83-88	
		NUMICON 2 (GMS) Measurement 6 Introducing litres and millilitres, and units of temperature	Digital	Teacher	89-94	

Measurement: measuring	Comparing and ordering several objects using informal units of length, mass (weight), or capacity	NUMICON 2 (GMS) Measurement 1 Introducing centimetres	Digital	Teacher	59-65	
		NUMICON 2 (GMS) Measurement 4 Introducing metres	Digital	Teacher	77-82	
		NUMICON 2 (GMS) Measurement 5 Introducing kilograms and grams	Digital	Teacher	83-88	
		NUMICON 2 (GMS) Measurement 6 Introducing litres and millilitres, and units of temperature	Digital	Teacher	89-94	
	Turning an object or person and describing how far they have turned, using full, half, quarter, and three-quarter turns as benchmarks	NUMICON 2 (GMS) Geometry 5 Investigating and describing rotation	Digital	Teacher	50-56	
	Naming and ordering the months and seasons	NUMICON 1 (GMS) Measurement 3 Units of time	Digital	Teacher	72-76	
		NUMICON 2 (NPC) Pattern & Algebra 1 Exploring different patterns	Digital	Teacher	46-50	
	Describing durations of familiar events using years, months, weeks, and days, or hours, minutes and seconds	NUMICON 1 (GMS) Measurement 3 Units of time	Digital	Teacher	72-76	
		NUMICON 2 (NPC) Pattern & Algebra 1 Exploring different patterns	Digital	Teacher	46-50	
		NUMICON 2 (GMS) Measurement 7 Telling the time and adding and subtracting with units of time	Digital	Teacher	95-101	
		NUMICON 3 (GMS) Measurement 2 Exploring units of time	Digital	Teacher	63-68	

Measurement: measuring	Naming the month before and the month after	NUMICON 2 (NPC) Pattern & Algebra 1 Exploring different patterns Activity 3	Digital	Teacher	47-48	
	Using ordinal numbers to identify months of the year	NUMICON 2 (NPC) Pattern & Algebra 1 Exploring different patterns Activity 3	Digital	Teacher	47-48	
	Telling the time on analogue and digital clocks to the hour, half-hour, and quarter-hour, using the language of 'past' and 'o'clock'	NUMICON 2 (GMS) Measurement 7 Telling the time and adding and subtracting with units of time	Digital	Teacher	95-101	
	Measuring the perimeter of polygon using metric units	NUMICON 2 (GMS) Geometry 1 Making and classifying polygons	Digital	Teacher	27-33	Numicon 2 GEO 1 introduces polygons
		NUMICON 3 (GMS) Measurement 3 Measuring accurately and calculating with metres, centimetres and millimetres	Digital	Teacher	69-73	Numicon 3 MEA3 focuses on measuring perimeter of simple shapes using metric units
Geometry: shapes	Identifying, describing, visualising, and sorting 2D and 3D shapes, including ovals, semicircles, polygons (e.g. hexagons, pentagons), rectangular prisms (cuboids), pyramids, and cones, using the attributes of shapes	NUMICON 2 (GMS) Geometry 1 Making and classifying polygons	Digital	Teacher	27-32	
		NUMICON 2 (GMS) Geometry 2 Identifying the faces, edges and vertices of solid 3D shapes	Digital	Teacher	33-37	
		NUMICON 2 (GMS) Geometry 4 Recognizing and naming prisms and cylinders	Digital	Teacher	44-49	
Geometry: spatial reasoning	Flipping, sliding, and turning 2D shapes to make a pattern or compose a shape	NUMICON 2 (GMS) Geometry 1 Making and classifying polygons Focus activities 2 and 3	Digital	Teacher	27-32	
		NUMICON 2 (GMS) Geometry 5 Investigating and describing rotation	Digital	Teacher	50-56	

Geometry: pathways	Following and giving instructions to move to a different location, using direction, distances (e.g. number of steps), and half and quarter turns	NUMICON 2 (GMS) Geometry 5 Investigating and describing rotation	Digital	Teacher	50-56	
	Interpreting diagrams to describe the positions of objects and places in relation to other objects and places.	NUMICON 1 (GMS) Geometry 5 Position, direction and movement	Digital	Teacher	51-57	
Statistics: Developing knowledge from data	Collecting categorical data for an investigative question with limited categories (e.g. What are the favourite pets of students in our class?)	NUMICON 2 (GMS) Statistics and Probability 1 Collecting, using and understanding categorical data	Digital	Teacher	103-108	S&P1 is eBook plus printable pack
	Sorting categorical data into categories and considering if “other” should be a category for sorting rare responses	NUMICON 2 (NPC) Pattern & Algebra 6 Logic	Digital	Teacher	77-82	
		NUMICON 2 (GMS) Statistics and Probability 1 Collecting, using and understanding categorical data	Digital	Teacher	103-108	S&P1 is eBook plus printable pack
	Recording data using tally charts	NUMICON 2 (GMS) Statistics and Probability 1 Collecting, using and understanding categorical data	Digital	Teacher	103-108	S&P1 is eBook plus printable pack
Statistics: Visualisation of data	Creating data visualisations for categorical data	NUMICON 2 (NPC) Pattern & Algebra 6 Logic	Digital	Teacher	77-82	
		NUMICON 2 (GMS) Statistics and Probability 1 Collecting, using and understanding categorical data	Digital	Teacher	103-108	S&P1 is eBook plus printable pack
Statistics: Interpretation of data	Describing data visualisations using the variable name and the context and giving the frequency for each category	NUMICON 2 (GMS) Statistics and Probability 1 Collecting, using and understanding categorical data	Print download Digital	Teacher	103-108	S&P1 is eBook plus printable pack
	Answering questions about data visualisations, including which category has the most or least items	NUMICON 2 (GMS) Statistics and Probability 1 Collecting, using and understanding categorical data	Digital	Teacher	103-108	S&P1 is eBook plus printable pack

Year 3

Strand and Element	Practices The skills, strategies, and applications to teach	Resource Title (NPC: Number, Pattern and Calculating Teaching Handbook; GMS: Geometry, Measurement and Statistics Teaching Handbook)	Resource Type	Teacher/Student	Page/ Section Reference	
Number: number structures	Reading and writing whole numbers up to 1,000, and representing them using base 10 structure	NUMICON 3 (NPC) Number and the Number System 2 Exploring hundreds, tens, and ones with base ten apparatus	Digital	Teacher	80-83	
			Print	Student	14-17	
	Recognising the place value of each digit in a three-digit number	NUMICON 3 (NPC) Number and the Number System 2 Exploring hundreds, tens, and ones with base ten apparatus	Digital	Teacher	80-83	
			Print	Student	14-17	
	Comparing and ordering whole numbers up to 1,000	NUMICON 3 (NPC) Number and the Number System 5 Ordering and structuring numbers to 1000	Digital	Teacher	92-99	
			Print	Student	66-69	
	Finding the total number of objects beyond 120 by first separating them into groups (e.g. groups of 10 or 100)	NUMICON 3 (NPC) Number and the Number System 2 Exploring hundreds, tens, and ones with base ten apparatus	Digital	Teacher	80-83	
			Print	Student	14-17	
	Estimating the answer to a calculation	NUMICON 2 (NPC) Number and the Number System 5 Rounding	Digital	Teacher	113-114	
			NUMICON 3 (NPC) Calculating 13 Using apparatus and imagery to introduce the written column method for addition	Digital	Teacher	193-198
				Print	Student	110-113
	Rounding numbers to the nearest 10 or 100	NUMICON 3 (NPC) Number and the Number System 6 Finding halfway, rounding to the nearest 10 or 100	Digital	Teacher	100-104	
			Print	Student	82-85	
	Counting forwards and backwards in 2s, 3s, 4s, 5s, and 8s from multiples of these numbers (e.g. 20, 15, 10, 5; 8, 16, 24, 32)	NUMICON 3 (NPC) Calculating 10 Learning multiplying facts and looking for patterns	Digital	Teacher	176-180	
Print			Student	86-89		

Number: number structures	Counting forwards and backwards in 10s and 100s from any whole number between 0 and 1000	NUMICON 3 (NPC) Number and the Number System 5 Ordering and structuring numbers to 1000	Digital	Teacher	92-99
			Print	Student	66-69
		NUMICON 3 (NPC) Number and the Number System 6 Finding halfway, rounding to the nearest 10 or 100	Digital	Teacher	100-104
			Print	Student	82-85
Number: operations	Finding the complement of a number to 100 (e.g. $34 + _ = 100$)	NUMICON 3 (NPC) Calculating 2 Developing fluency with adding and subtracting facts to 20 Activity 9	Digital	Teacher	126-132
			Print	Student	13
		NUMICON 3 (NPC) Calculating 9 Patterns of similar adding and subtracting calculations Activity 6	Digital	Teacher	170-171
			Print	Student	75
	Adding and subtracting numbers up to 1000 (e.g. $329 + 3$, $329 + 80$, $329 - 200$, $137 + 54$)	NUMICON 3 (NPC) Calculating 13 Using apparatus and imagery to introduce the written column method for addition	Digital	Teacher	193-198
			Print	Student	110-113
		NUMICON 3 (NPC) Calculating 14 Using apparatus and imagery to introduce the written column method for subtraction	Digital	Teacher	199-201
			Print	Student	114-117
	Solving one-step addition and subtraction problems involving numbers up to 1000	NUMICON 3 (NPC) Calculating 13 Using apparatus and imagery to introduce the written column method for addition	Digital	Teacher	193-198
			Print	Student	110-113
		NUMICON 3 (NPC) Calculating 14 Using apparatus and imagery to introduce the written column method for subtraction	Digital	Teacher	199-201
			Print	Student	114-117
	Solving multi-step addition and subtraction problems involving numbers up to 100	NUMICON 3 (NPC) Calculating 3 Mental methods for adding single digit numbers	Digital	Teacher	133-137
			Print	Student	26-29
		NUMICON 3 (NPC) Calculating 4 Mental methods for subtracting	Digital	Teacher	138-143
			Print	Student	30-33
NUMICON 3 (NPC) Calculating 9 Patterns of similar adding and subtracting calculations		Digital	Teacher	167-175	
		Print	Student	74-77	
NUMICON 3 (NPC) Calculating 12 Partitioning strategies for adding and subtracting		Digital	Teacher	186-192	
		Print	Student	98-101	

Number: operations	Memorising multiplication and corresponding division facts for 2s, 3s, 4s, 5s, 8s, and 10s	NUMICON 3 (NPC) Calculating 10 Learning multiplying facts and looking for patterns	Digital	Teacher	176-180
			Print	Student	86-89
	Multiplying or dividing using equal sharing, grouping, repeated addition or subtraction, or known facts	NUMICON 3 (NPC) Calculating 5 Revising multiplying as repeated adding	Digital	Teacher	144-147
			Print	Student	42-45
		NUMICON 3 (NPC) Calculating 7 Revising dividing as 'How many...in...?'	Digital	Teacher	153-159
			Print	Student	50-53
	Multiplying a one- or two-digit number by a one-digit number (e.g. 4×6 ; 2×23)	NUMICON 3 (NPC) Calculating 15 Exploring ratio, scaling problems and introducing the short-written methods of multiplying and dividing	Digital	Teacher	205-210
			Print	Student	118-121
	Dividing whole numbers by a one-digit divisor with no remainders (e.g. $24 \div 3$, $32 \div 4$)	NUMICON 3 (NPC) Calculating 15 Exploring ratio, scaling problems and introducing the short-written methods of multiplying and dividing	Digital	Teacher	205-210
			Print	Student	118-121
Number: rational numbers	Reading, writing, and representing fractions of sets, quantities, and measurements on a number line, and of regions, using small denominators	NUMICON 3 (NPC) Number and the Number System 8 Using fraction notation to describe parts of a discrete set Activity 1	Digital	Teacher	111-117
			Print	Student	146-149
	Counting in unit fractions up to 1	NUMICON 3 (NPC) Number and the Number System 7 Understanding fractions of a whole and fractions as numbers Activity 5	Digital	Teacher	105-110
			Print	Student	142-145
	Comparing unit fractions with denominators up to 12	NUMICON 3 (NPC) Number and the Number System 7 Understanding fractions of a whole and fractions as numbers Activity 3	Digital	Teacher	105-110
			Print	Student	142-145
	Comparing non-unit fractions with the same denominator up to 12	NUMICON 3 (NPC) Number and the Number System 7 Understanding fractions of a whole and fractions as numbers Activity 4	Digital	Teacher	105-110
			Print	Student	142-145
	Identifying when two fractions are equivalent, using representations	NUMICON 3 (NPC) Number and the Number System 7 Understanding fractions of a whole and fractions as numbers Activity 7	Digital	Teacher	105-110
			Print	Student	142-145

Number: rational numbers		NUMICON 3 (NPC) Number and the Number System 8 Using fraction notation to describe parts of a discrete set Activity 6	Digital	Teacher	111-117
			Print	Student	146-149
	Finding a unit fraction of a whole number by connecting to division (e.g. $\frac{1}{3}$ of 15 is found by $15 \div 3$)	NUMICON 3 (NPC) Number and the Number System 8 Using fraction notation to describe parts of a discrete set Activity 8	Digital	Teacher	111-117
			Print	Student	146-149
	Finding the whole when given a unit fraction by connecting to repeated addition or multiplication (e.g. if $\frac{1}{4}$ of a set is 3, the whole set is $4 \times 3 = 12$)	NUMICON 3 (NPC) Number and the Number System 8 Using fraction notation to describe parts of a discrete set Activity 7	Digital	Teacher	111-117
			Print	Student	146-149
		NUMICON 3 (NPC) Calculating 16 Download Activity 5b	Digital	Teacher	6 218
	Adding and subtracting fractions with the same denominator within a whole (e.g. $\frac{1}{8} + \frac{2}{8} + \frac{3}{8} = \frac{6}{8}$)	NUMICON 3 (NPC) Number and the Number System 8 Using fraction notation to describe parts of a discrete set Activity 5	Digital	Teacher	111-117
			Print	Student	146-149
	Number: financial maths	Representing currency values of mixed dollars and cents without using decimal notation (e.g. \$2 and 50 cents)	NUMICON 3 (NPC) Number and the Number System 4 Partitioning 2- and 3- digit numbers with and without money	Digital	Teacher
Print				Student	58-61
		NUMICON 3 (GMS) Measurement 4 Calculating with dollars and cents, and handling money	Digital	Teacher	74-79
			Print	Student	126-129
Making amounts of money using one- and two-dollar coins and 5-, 10-, 20-, 50-, and 100-dollar notes		NUMICON 3 (NPC) Number and the Number System 4 Partitioning 2- and 3- digit numbers with and without money	Digital	Teacher	88-91
			Print	Student	58-61
		NUMICON 3 (GMS) Measurement 4 Calculating with dollars and cents, and handling money	Digital	Teacher	74-79
			Print	Student	126-129
Using addition and subtraction to give change		NUMICON 3 (NPC) Calculating 2 Activity 10	Digital	Teacher	181
			Print	Student	13

Number: financial maths	Using addition and subtraction to give change	NUMICON 3 (NPC) Calculating 8 Adding and subtracting multiples of 10 and 100	Digital	Teacher	160-166	
			Print	Student	70-73	
		NUMICON 3 (GMS) Measurement 4 Calculating with dollars and cents, and handling money	Digital	Teacher	74-79	
			Print	Student	126-129	
Algebra: equations and relationships	Checking the truth of number sentences involving direct comparisons of whole numbers up to 1,000 (e.g. $313 < 330$, true or false?)	NUMICON 3 (NPC) Number and the Number System 5 Ordering and structuring numbers to 1000	Digital	Teacher	92-99	
			Print	Student	66-69	
	Checking the truth of number sentences and completing open number sentences involving addition, subtraction, multiplication, or division (e.g. $217 - _ = 105$, $12 \div 3 = 5 - 2$, true or false?)	NUMICON 2 (NPC) Pattern & Algebra 3 Activity 3b: Addition, subtraction	Digital	Teacher	57-63	
			NUMICON 3 (NPC) Calculating 6 Activity 4b Multiplication	Digital	Teacher	151
				NUMICON 3 (NPC) Calculating 11 Activity 3b: Division	Digital	Teacher
	Recognising, continuing, and creating growing number patterns	NUMICON 3 (NPC) Pattern & Algebra 2 Exploring steps of constant size through sequences of multiples	Digital	Teacher	49-54	
			Print	Student	34-37	
		NUMICON 3 (NPC) Pattern & Algebra 4 Extending sequences and finding differences	Digital	Teacher	61-67	
			Print	Student	94-97	
	Measurement: measuring	Estimating and measuring length (cm and m), mass (g and kg), and capacity (ml and l), using tools with labelled markings and whole-number metric units	NUMICON 3 (GMS) Measurement 3 Measuring accurately and calculating with metres, centimetres and millimetres	Digital	Teacher	69-73
Print				Student	122-125	
NUMICON 3 (GMS) Measurement 5 Measuring and calculating with grams and Kilograms			Digital	Teacher	80-87	
			Print	Student	134-137	
Comparing and ordering objects using whole-number metric units of length, mass, or capacity		NUMICON 3 (GMS) Measurement 3l Measuring accurately and calculating with metres, centimetres and millimetres	Digital	Teacher	69-73	
			Print	Student	122-125	
		NUMICON 3 (GMS) Measurement 5 Measuring and calculating with grams and Kilograms	Digital	Teacher	80-87	
			Print	Student	134-137	

Measurement: measuring	Turning an object or person and describing how far they have turned, using full, half, quarter, and three-quarter turns as benchmarks	NUMICON 3 (GMS) Geometry 2 Identifying and comparing angles by size	Digital	Teacher	34-40
			Print	Student	54-57
	Identifying the duration of events using years, months, weeks, days, hours, minutes, and seconds	NUMICON 3 (GMS) Measurement 2 Exploring units of time including 24-hour clock	Digital	Teacher	63-68
			Print	Student	106-109
	Describing the differences in duration between units of time (e.g. days vs weeks, months vs years)	NUMICON 3 (GMS) Measurement 2 Exploring units of time including 24-hour clock	Digital	Teacher	63-68
			Print	Student	106-109
	Telling the time on analogue and digital clocks to the nearest 5 minutes and the nearest minute, using the language of minutes past the hour and to the hour	NUMICON 3 (GMS) Measurement 1 Telling the time to the minute on the 12-hour clock	Digital	Teacher	57-62
			Print	Student	102-105
		NUMICON 3 (GMS) Measurement 2 Exploring units of time including 24-hour clock	Digital	Teacher	63-68
			Print	Student	106-109
	Measuring the perimeter of polygon using metric units	NUMICON 3 (GMS) Measurement 3 Calculating area and perimeter Activity 2	Digital	Teacher	70
			Print	Student	106-109
Measuring the area of rectangles using squares of equal size	NUMICON 5 (GMS) Measurement 3 Calculating area and perimeter Activities 1-3	Digital	Teacher	78-85	
		Print	Student	110	
Geometry: shapes	Identifying, describing, visualising and sorting regular polygons with up to 10 sides	NUMICON 3 (GMS) Geometry 1 Investigating the parts and properties of polygons and polyhedra	Digital	Teacher	27-33
			Print	Student	38-41
	Identifying the faces, edges and vertices of solid 3D shapes Activity 4	NUMICON 3 (GMS) Geometry 2	Digital	Teacher	34-40
			Print	Student	54-57
Geometry: spatial reasoning	Recognising lines of symmetry in patterns or pictures, and creating or completing symmetrical patterns or pictures	NUMICON 3 (GMS) Geometry 3, Investigating symmetry Activity 5	Digital	Teacher	41-48
			Print	Student	65
		NUMICON 2 (GMS) Geometry 3 Investigating symmetry	Digital	Teacher	38-43

Geometry: pathways	Following and creating a sequence of step-by-step instructions for moving people or objects to a different location, including half and quarter turns and the distance to be travelled	NUMICON 3 (GMS) Geometry 2 Identifying and comparing angles by size	Print	Teacher	34-40
			Digital	Student	54-57
		NUMICON 3 (GMS) Geometry 4 Using grids and grid references	Print	Teacher	51-55
			Digital	Student	154-157
	Use simple maps to locate objects and places relative to other objects and places.	NUMICON 3 (GMS) Geometry 4 Using grids and grid references	Digital	Teacher	51-55
			Print	Student	154-157
Statistics: Developing knowledge from data	Collecting categorical data and sorting the responses	NUMICON 3 (GMS) Geometry 3 Sorting and classifying 2D and 3D shapes	Digital	Teacher	41-48
			Print	Student	62-65
		NUMICON 3 (GMS) Statistics and Probability 1 Using graphs and investigating probability	Digital	Teacher	94-100
	Collecting numerical data by asking an investigative question with a response that is a count or a discrete measurement (i.e. a whole number) (e.g. How many teeth have been lost by the students in our class? What are the shoe sizes in the class?)	NUMICON 3 (GMS) Measurement 3 Measuring accurately and calculating with metres, centimetres and millimetres Activity 6	Digital	Teacher	69-73
			Print	Student	122-125
		NUMICON 3 (GMS) Statistics and Probability 1 Using graphs and investigating probability	Digital	Teacher	94-100
Statistics: Visualisation of data	Creating data visualisations for categorical and numerical data	NUMICON 3 (GMS) Geometry 3 Sorting and classifying 2D and 3D shapes	Digital	Teacher	41-48
			Print	Student	62-65
		NUMICON 3 (GMS) Statistics and Probability 1 Using graphs and investigating probability	Digital	Teacher	94-100
Statistics: Interpretation of data	Describing data visualisations using the variable name and the context and giving the frequency for each category or number	NUMICON 3 (GMS) Statistics and Probability 1 Using graphs and investigating probability	Digital	Teacher	94-100
	Answering questions about data visualisations, including which category has the most or least items and questions involving operations (e.g. How many teeth did our class lose in total?)	NUMICON 3 (GMS) Geometry 3 Sorting and classifying 2D and 3D shapes	Digital	Teacher	41-48
			Print	Student	62-65
		NUMICON 3 (GMS) Statistics and Probability 1 Using graphs and investigating probability	Digital	Teacher	94-100